

Special Ratings and Performance Data

SHOCK RATING

Impact Acceleration 750 max. g

FATIGUE RATING

Vibrational Acceleration 2.5 max. g

HEATER-CYCLING LIFE PERFORMANCE

Cycles of Intermittent Operation 2000 min. cycles

Operating Considerations

Sufficient anode-circuit resistance, including the tube load, must be used under any conditions of operation to prevent exceeding the current ratings of the tube.

Curve shown under type 2D21 also applies to type 5727

5734 Refer to chart at end of section.

5749 Refer to chart at end of section.

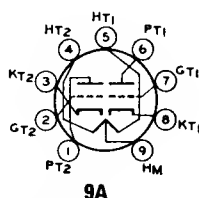
5749/6BA6W Refer to chart at end of section.

5750 Refer to chart at end of section.

5751INDUSTRIAL
TYPE

HIGH-MU TWIN TRIODE

Miniature type "Premium" high-mu twin triode used as a phase inverter and as a high gain amplifier in industrial control devices. Outlines section, 6B; requires miniature 9-contact socket.



Heater Arrangement:	Series	Parallel	
Heater Voltage (ac/dc)	12.6 $\pm$ 10%	6.3 $\pm$ 10%	volts
Heater Current	0.175	0.350	ampere
Heater-Cathode Voltage:			
Peak		$\pm$ 100 max.	volts

Class A₁ Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid Voltage:		
Negative-bias value	55	volts
Positive-bias value	0	volt
Plate Dissipation	0.8	watt
Bulb Temperature (At hottest point on bulb surface)	165	$^{\circ}$ C

CHARACTERISTICS

Plate Voltage	100	250	volts
Grid Voltage	-1	-3	volts
Amplification Factor	70	70	
Plate Resistance	58000	58000	ohms
Transconductance	1200	1200	μ mhos
Plate Current	0.9	1.0	mA

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FATIGUE RATING

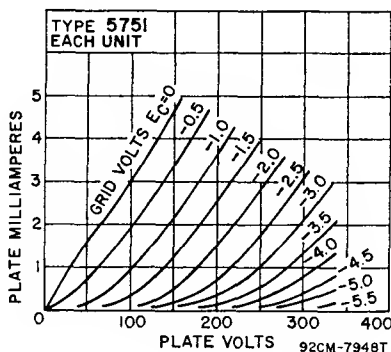
Vibrational Acceleration	2.5 max.	g
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LOW-FREQUENCY VIBRATION PERFORMANCE

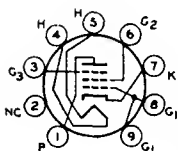
RMS Output Voltage	100 max.	mV
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HEATER-CYCLING LIFE PERFORMANCE

Cycles of Intermittent Operation	2000 min.	cycles
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Refer to chart at end of section.

5751WA**9K****VHF BEAM POWER TUBE****5763**INDUSTRIAL
TYPE

Miniature type VHF beam power amplifier for use in low-power mobile transmitters and the low-power stages of larger fixed station transmitters. Outlines section, 6E; requires miniature 9-contact socket.

Heater Voltage (ac/dc)	6.0 $\pm$ 10%	volts
Heater Current	0.75	ampere
Heater-Cathode Voltage:		
Peak	$\pm$ 100 max.	volts
Transconductance for plate current of 45 mA	7000	μ mhos
Mu-Factor, Grid No.2 to Grid No.1	16	
Direct Interelectrode Capacitances:		
Grid No.1 to Plate	0.3 max	pF
Input	9.5	pF
Output	4.5	pF

Plate-Modulated RF Power Amplifier—Class C Telephony

Carrier conditions per tube for use with a max. modulation factor of 1.0

CCS● ICAS●●

MAXIMUM RATINGS (Absolute-Maximum Values)

DC Plate Voltage	250	300	volts
DC Grid-No.3 (Suppressor) Voltage	0	0	volts
DC Grid-No.2 (Screen) Voltage	250	250	volts
DC Grid-No.1 (Control-Grid) Voltage	-125	-125	volts
DC Plate Current	40	50	mA
DC Grid-No.2 Current	15	15	mA
DC Grid-No.1 Current	5	5	mA
Plate Input	10	15	watts
Grid-No.2 Input	1.5	1.5	watts
Plate Dissipation	8	12	watts
Bulb Temperature (At hottest point on bulb surface)	250	250	$^{\circ}$ C